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UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
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Washington, D.C. 20231

DATE: 02/23/94  
TO:

N01B

RENEE A. FITTS  
GENENTECH, INC.  
460 PT. SAN BRUNO BLVD.  
M/S 49  
SO. SAN FRANCISCO, CA 94080

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MAR 14 1994

GENENTECH, INC. LEGAL DEPT.

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT ASSIGNMENT PROCESSING SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT BRANCH, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231

ASSIGNOR:  
CLELAND, JEFFREY L.

DOC DATE: 12/23/93

ASSIGNOR:  
LIM, AMY

DOC DATE: 01/04/94

ASSIGNOR:  
POWELL, MICHAEL F.

DOC DATE: 01/10/94

RECORDATION DATE: 01/24/94 NUMBER OF PAGES 003 REEL/FRAME 6830/0251

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:  
GENENTECH, INC.  
ATTN: RENEE A. FITTS  
460 PT. SAN BRUNO BLVD., M/S 49  
SO. SAN FRANCISCO, CA 94080

SERIAL NUMBER 8-143555 FILING DATE 10/25/93  
PATENT NUMBER ISSUE DATE 00/00/00

*N. Saunders*  
EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH  
ASSIGNMENT/CERTIFICATION SERVICES DIVISION

Docket No. 825B

**ASSIGNMENT**

WHEREAS, Jeffrey L. Cleland, a citizen of U.S.A., residing at 844 Cordilleras Avenue, San Carlos, CA 94070 and Amy Lim, a citizen of U.S.A., residing at 2840 Berkshre Drive, San Bruno, CA 94066-1754, and Michael Frank Powell, a citizen of Canada, residing at 531 Hugo Street, San Francisco, CA 94122, have invented a new and useful invention in

**METHODS AND COMPOSITIONS FOR MICROENCAPSULATION OF ANTIGENS FOR USE AS VACCINES**

for which an application Serial No. 08/143,555 for Letters Patent has been filed by them on 25 October 1993; and

WHEREAS, GENENTECH, INC., a corporation organized and existing under and by virtue of the laws of the State of Delaware, having a place of business at 460 Point San Bruno Boulevard, South San Francisco, California 94080, is desirous of acquiring an interest in and to said invention, and in and to the Letters Patents to be obtained therefor;

NOW, THEREFORE, be it known by all whom it may concern;

That for good and valuable consideration the receipt of which is hereby acknowledged, the said Jeffrey L. Cleland, Amy Lim and Michael Frank Powell have and do hereby sell, assign, transfer and set over unto the said GENENTECH, INC., its successors and assigns, the full and exclusive right, title and interest including all rights under the Paris Convention for the Protection of Industrial Property, in and to said invention, and in and to any and all Letters Patents to be granted and issued therefor, not only for, to, and in the United States of America, its territories and possessions, but for, to and in all other countries; and it has been and is hereby authorized and requested that the appropriate government agencies issue said Letters Patents to said GENENTECH, INC., in accordance with this Assignment.

Said Jeffrey L. Cleland, Amy Lim and Michael Frank Powell covenant and agree to cooperate with GENENTECH, INC., to enable said GENENTECH, INC. to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Jeffrey L. Cleland, Amy Lim and Michael Frank Powell includes prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said GENENTECH, INC., (a) for perfecting the right, title and interest herein conveyed (b) for prosecuting any of said applications; (c) for filing and prosecuting applications for reissuance of any of said patents; (d) for interference or other priority proceedings involving said invention; and (e) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Jeffrey L. Cleland, Amy Lim and Michael Frank Powell in providing such cooperation shall be paid for by said GENENTECH, INC.

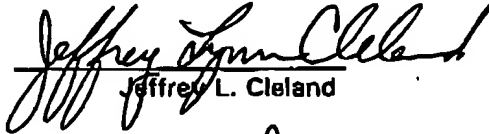
The terms and covenants of this assignment shall inure to the benefit of said GENENTECH, INC., its successors, assigns and other legal representatives, and shall be binding upon said Jeffrey L. Cleland, Amy Lim and Michael Frank Powell, their respective heirs, legal representatives and assigns.

Said Jeffrey L. Cleland, Amy Lim and Michael Frank Powell hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF we undersign as follows;

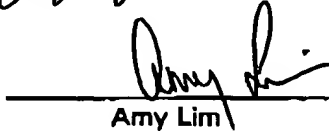
South San Francisco

Dated: 12/23/93

  
Jeffrey L. Cleland

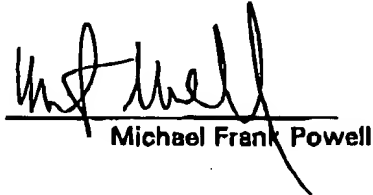
South San Francisco

Dated: 1/4/94

  
Amy Lim

South San Francisco

Dated: 1/10/94

  
Michael Frank Powell